How do I find the line of best fit on a TI-84 calculator?

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The process of finding the line of best fit on a TI-84 calculator involves using the built-in function "LinReg" or "LinReg(ax+b)" to calculate the equation of the line that best represents a set of data points. This function takes into account the values of the data points and calculates the slope and y-intercept of the line, which can then be used to create a visual representation of the data. By following the steps outlined in the calculator's manual or by seeking assistance from a knowledgeable user, one can easily find the line of best fit for their data on a TI-84 calculator. This method is particularly useful for analyzing and predicting trends in large sets of numerical data.

Find Line of Best Fit on TI-84 Calculator

A line of best fit is the line that best "fits" the trend of a dataset.

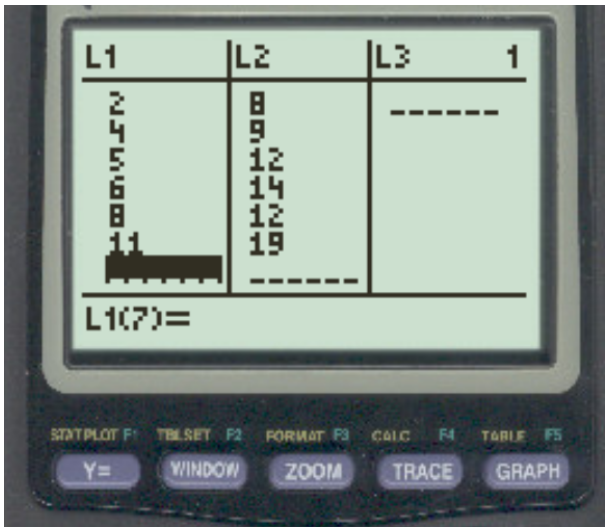
This tutorial provides a step-by-step example of how to calculate the line of best fit for the following dataset on a TI-84 calculator:

x	y
2	8
4	9
5	12
6	14
8	13
11	19

Step 1: Enter the Data

First, we will enter the data values. Press STAT, then press EDIT. Then enter the x-values of the dataset in

column L1 and the y-values in column L2:



Step 2: Find the Line of Best Fit

Next, we will find the line of best fit.

Press Stat, then scroll over to CALC. Then scroll down to LinReg(ax+b) and press ENTER.

Then press 2nd and 1 and comma , then press 2nd and 2 and comma , then press VARS and scroll over to to Y-VARS and press ENTER.

Your screen should look like this:

Press ENTER once more and the following line of best fit will be displayed:

The line of best fit is: y = 5.493 + 1.14x

Step 3: Plot the Line of Best Fit

Press ZOOM and then scroll down to ZOOMSTAT and press ENTER.

The following scatterplot with the line of best fit will be shown: